

Title (en)  
Indicating instrument having stepping motor

Title (de)  
Anzeigeeinstrument mit Schrittmotor

Title (fr)  
Instrument à aiguille avec un moteur pas-à-pas

Publication  
**EP 0756175 B1 20131218 (EN)**

Application  
**EP 96110308 A 19960626**

Priority  
JP 19208695 A 19950727

Abstract (en)  
[origin: EP0756175A1] A zero-position stopper (12a) to stop the pointer (50) when it is returned to the zero position and a maximum-position stopper (12b) to stop the pointer when it is located at the maximum position are provided. A microcomputer generates a zero-start signal when an ignition switch (IG) is turned on so that the pointer moves from the zero position and engages the maximum position stopper, and thereafter generates a zero-return signal so that the pointer returns to the zero-position stopper. When the pointer engages the zero-position stopper (12a), the computer does not generate a control signal. <IMAGE>

IPC 8 full level  
**G01P 1/08** (2006.01); **G01R 7/06** (2006.01); **G01D 7/00** (2006.01); **G01D 11/00** (2006.01); **G01D 13/22** (2006.01); **G01R 5/16** (2006.01); **G05B 19/23** (2006.01); **H02P 8/00** (2006.01)

CPC (source: EP KR US)  
**G01R 7/06** (2013.01 - EP US); **G05B 19/232** (2013.01 - EP US); **H02P 21/00** (2013.01 - KR)

Cited by  
EP1569001A3; EP0959359A1; EP1266383A4; EP1195610A1; DE102012105775B4; EP2159550A4; CN111426289A; US7233255B2; US6731092B2; US6211585B1

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